

Direct and Simultaneous Determinations of Strontium, Calcium, Sodium, Potassium and Lithium in the Presence of Aluminium, Iron, Titanium and Magnesium by Flame Spectrophotometry, by J. Debras-Guedes, I. Volnovitch.

FRENCH, par, Comptes Rendus, Vol. CCXVIII, 15 Jun 1959, pp 3421-3423.

Broken Hill Prop Co Ltd
(CRL/T 194)

Sci - Chem
Dec 61

175, 7/2

Influence of the Formation Speed of a
Thin Film of Gold on the Phase Changes
Undergone by a Luminous Wave When It
Reflects in the Air Onto the Metal or
on the Support of Quartz onto the Metal,
by Roger Philip, 4 pp.

FRENCH, par, Comptes Rendus, Vol CCXLVIII,
No 25, 1959, pp 3543-3545.

SLA 60-16998

Sci
Vol IV, No 9
Mar 62

187, 221

Thermal Decomposition of Vanadyl Sulfate,
by J. Roch.
FRENCH, per, Comptes Rendus, Vol 248,
No 25, 1959, pp 3549-3551.
NTC 69-11343-07D

Sci-Chem
July 69

387,081

Tchao, You-Hing and Hervé, Jacques.
MAGNETIC RESONANCE OF THE NITROSODISULFO-
NATE ION IN A WEAK FIELD; STUDY OF DILUTE
SOLUTIONS (Résonance Magnétique en Champ Faible
de l'Ion Nitrosodisulfonate. Etude des Solutions
Diluées). [1960] 3p. 5 refs.
Order from SLA ml\$1.80, ph\$1.80 60-18136

Trans. of [Académie des Sciences, Paris]. Comptes
Rendus (France) 1959, v. 248, no. 26, p. 3696-3698.

See also 60-18323

143,254

(Chemistry--Physical, TT, v. 5, no. 4)

60-18136

1. Nitroso compounds--
Resonance
 2. Sulfonates--Resonance
 3. Ions--Resonance
 4. Ions--Electromagnetic
effects
 5. Magnetic resonance--
Measurement
- I. Tchao, Y.
 - II. Hervé, J.
 - III. Title: Study...

Office of Technical Services

Magnetic Resonance of the Nitrosodi-
Sublimate Ion in a Weak Field. Study of
Concentrated Solutions, by You-hing Tcheo,
Jacques Herve, 3 pp.

FRENCH, per, Comptes Rendus Academie des
Sciences, Paris, 1959, Vol CCII, No 1,
pp 53-55.

SLA 60-18323

195, 985

Sci.

May 62

Bedos, Pierre, Eleftheriou, Constantin, and Perakis, Nicolas.

A CONTRIBUTION TO THE STUDY OF THE MAGNETIC PROPERTIES OF P-AZOXYANISOLE. [1961] 5p. 1 ref.

Order from SLA \$1.10

61-20289

Trans. of [Academie des Sciences, Paris]. Comptes Rendus (France) 1959, v. 249, no. 1, p. 61-63 (pub. by Gauthier-Villars et Cie., Paris).

DESCRIPTORS: *Azoxyanisole, *Azo radicals, *Magnetism, Transformations

The mesomorphic phase coming from the solid state seems to undergo a transformation (190-120°) which it does not undergo when coming from the liquid state which solidifies at 93°C. The anisotropy obtained by crystallization of the substance in a magnetic field in- (Chemistry--Organic, TT, v. 7, no. 9) (over)

61-20289

- I. Bedos, P.
- II. Eleftheriou, C.
- III. Perakis, N.

Office of Technical Services

Study I of Reversible Chemical Adsorption
of Sulphur at the Surface of Copper at High
Temperatures, by J. Oudar, 3 pp.

FRENCH, per, Comptes Rendus, Vol CCXLII.
No 1, 1959, pp 91-93.

Broken Hill Proprietary
Co Ltd (CAR T.257)

Sci - Chem
Nov 61

174 370

Energy Limit of the Effects of Electoreinforcement
and Electroextinction, by Georges Destriau,
3 pp.

FRENCH, per, Comptes Rendus, Vol CCIL, No 2, 1959,
pp 245-247.

SLA 60-18322

Sci

May 62

196, 494

Isotopes of Mercury and Gold With Mass Number
190, by Georgette Albouy, Rene Bernas, Mark
Gusakow, Nina Poffe, Jean Taillac, 4 pp.

FRENCH, per, Comptes Rendus des Seances de
l'Academie des Sciences, Vol CCXLIX, 1959,
p 407. 9079628

ABC Tr 4664

164, 881

Sci
Aug 61

Marucchi, J. and Nifontoff, N.
STUDY OF THE ORIENTED GROWTH OF GERMA-
NIUM ON A SINGLE CRYSTAL OF FLUORITE.
[1960] 800 words.
Order from LSA \$8.25

Trans. of Academie des Sciences, Paris. Comptes
Rendus (France) 1959, v. 249 [no. 3] p. 435-437.
Also available from SLA mi\$1.80, ph\$1.80 or
60-14489, Feb 60, 4p.

For abstract see Technical Translations 3: 753, 1960

(Physics--Solid State, ET, v. 5, no. 1)

61-12133

I. Germanium crystals--
Growth

1. Marucchi, J.

II. Nifontoff, N.

III. Literature Service

ANALYTICAL CHEMISTRY
N. J.

143,146

Office of Technical Services

Richer, Albert and Vallet, Pierre. THE PYROLYSIS OF A VERY PURE NATURAL CAL- CITE [1960] 4p. 3 refs Order from S.I.A. ml\$1.80, ph\$1.80 61-10218 Trans. of [Academie des Sciences, Paris. Comptes Rendus (France)] v. 249, no. 5, p. (80-81).	61-102 B I. Calcite - Decomposition I. Richer, A. II. Vallet, P. 142,932
(Engineering - Chemical, TT, v. 5, no. 3)	Office of Technical Services

Cancerology. Effect of Chlorpromazine
and of Reserpine on the Experimental
Cancerization of Liver in the
Rat, by A. Lacassagne, et al.
FRENCH, per, Comptes Rendus Acad
Sciences, No 249, pp 903-905, 1969.
NII 9-40-64

Sci-9011
Jul 65

286,153

Hagege, R.
RELATION BETWEEN THE SLOPES AT THE EU-
TECTIC POINT OF A BINARY DIAGRAM AND THE
LATENT HEATS OF FUSION OF THE CONSTIT-
UENTS BASED ON A PARTIAL MISCIBILITY IN THE
SOLID PHASE. [1960] 725 words.
Order from LSA \$1.50

Trans. of Academie des Sciences, Paris. Comptes
Rendus (France) 1959, v. 249, no. 10, p. 956-958.
Also available from SLA mi\$1.80, ph\$1.80 as 60-16251,
Mar 60, 7p.

For abstract see Technical Translations 4: 123, 1960.

(Physics--Solid State, TT, v. 5, no. 1)

61-12134

- I. Alloys--Phase studies
I. Hagege, R.
II. Literature Service
Associates, Bound
Brook, N. J.

143, 147

Office of Technical Services

Some Data on the Nature and Properties of Radiomative
Fallout Resulting From Atomic Explosions Since 1945,
by L. Pauling, S. Sakata, S. Tamonaga, J. R. Vignier,
H. Yukawa, 5 pp.

FRENCH, per, Compt Rend, Vol. CCXLIX, 1959, pp 221-224.

ABC Tr-5336

Sci - Nuc Phys

Apr 60

114,734

Soil Mechanics. Elasticity of Non-~~XXX~~ Saturated
Clays. Tests on Test Samples, by Gerhard
Scheuch, 3 pp.

FRENCH, per, Comptes Rendus, Academie des
Sciences, Vol CCXLIX, No 12, 1959, pp 1031-1032.

CSIR Tr No 210

Sci - Biol

203,493

Jul 62

Does the Rotation of Liquids Have a Special Influence
on the Surface Film?, by Marius Bornous,
Ioan Eaboutia, 4 pp.

FRENCH, per, Comptes Rendus de l'Academie des
Sciences, Vol. CCXLIX, No 12, 21 Sep 1959,
pp 1035-1038. 9885175

DDC NSIC-40

Sci - Phys
Aug 63

Effect of the Thyroid of Rats of Radiations
by Very High Energy Particles Focused at
the Level of the Hypophysis, by

P. Blanquet.

FRENCH, per, Comptes Rendus, Vol 249,
No 12, 1959, pp 1064-1066.

NTC 69-12451-06R

Sci-B&M

Aug 69

388,506

Selzer, Eduoard.

EARTH MAGNETISM: SIMULTANEOUS RECORDINGS
MADE IN FRANCE, AT THE EQUATOR, AND IN
THE ANTARCTIC, OF THE MAGNETIC EFFECT RE-
SULTING FROM THE "ARGUS EXPERIMENT". [1962]
6p. 3 refs.

Order from SLA \$1.10

62-16101

Trans. of [Academie des Sciences, Paris]. Comptes
Rendus (France) 1959 [v. 249] no. 13, p. 1133-1135
(pub. by Gauthier-Villars et Cie., Paris).

DESCRIPTORS: *Terrestrial magnetism, Magnetism,
Measurement, France, Antarctic regions, *Nuclear
explosions, Magnetic effects.

The Argus Experiment, which consisted of three nu-
clear explosions at an approximate altitude of 480 km
(300 miles) above the South Atlantic, has generated
magnetic signals in each of the three cases. These
(Physics--Magnetism, TT, v. 8, no. 4) (over)

62-16101

I. Title: "Argus experiment"

I. Selzer, E.

II. Title: Simultaneous ...

Office of Technical Services

Structural Genes and Regulating Genes in Protein
Biosynthesis, by F. Jacob, J. Monod, C. R.

PERMEX, per, Comptes Rendus Acad Sci, Vol 261, No 14, 1966, pp 1198-1254.

1182

MMH Tr-9-2-60

Sci - Med

Nov 60

153,526

Artificial Sodium Clouds. Wind Speed,
Turbulence and Density of the High Atmosphere,
by J. E. Blamont.

FRENCH, per, Compt Rend, Vol CCCLIX, 1959,
pp 1248-1250.

NASA TT F-8157

Sci

7 Mar 62

US GOV'T ONLY

185,937

A Microscopic and Electronic Diffraction Study
of the Carburization of Fe and Al, by

J. J. Trillat.

FRENCH, per, Comptes Rendus Acad Sci, Vol 249,
1959, pp 1299-1302.

*Nat Bur Stand TT 70-57754

Sci-Materials

Jul 70

The Effect of Thermal Treatment on the Properties
of Sintered Beryllium Oxide of Various Densities,
Irradiated by Neutrons, by J. Elston, C. Gewiss,
C. Labbe, 4 pp. /u

FRENCH, par, Comptes Rendus, Vol CCXLIX, 1959,
pp 1653-1657.

AEC DEG-Inf Ser-104

Sci. - Chem
17 Mar 61

141,277

The Necessity of Trace Zinc for Tryptophan
Synthesis in *Aspergillus Niger*; The Possibility
of Replacing it With Cadmium, by D. Bertrand,
A. de Wolf, 5 pp.

FRENCH, per, Comptes Rendus Academie Sciences,
Vol CCXLIX, No 21, 1959, pp 2237-2239.

NIH 10-24-60

Chem

Sci -

Dec 60

133,924

Integrating the Viral and Mutagenic Etiologies
of Cancer, by Roland de Ruyck, 4 pp.

FRENCH, per, Comptes Rendus Academie Sciences,
Vol CCXLIX, No 21, Nov 23, 1959, pp 2249-2250.

NIH 10-15-60

Sci - Med
Dec 60

133,916

Inorganic Chemistry -- Existence of Continuous
Transition of Quadratic Structure to Cubic in
Rare Earth Zirconia - Oxide Systems, by Jean
Lefevre, Robert Collongues, Monique Paresy Jorda,
6 pp.

FRENCH, per, Comptes Rendus, Vol CCXLIX, 1959,
pp 2329-2331.

AEC Tr 4049

118,901

Sci - Chem
Jun 60

Diffusion of Ni-Zn Rich Ferrites, by A. Marais.
FRENCH, per, Comptes Rendus Acad Sci, Vol 249,
1959, pp 2511-2513.

*Nat Bur Stand TT 70-57744

Sci-Chem
Jul 70

On a New Method of Producing Non-
Stoichiometric, Colored Alumina, by
B. Arghipoulos, J. Elston, et al,
5 pp.

FRENCH, per, Comptes Rendus, Vol CCKLIX,
No 23, 1959, pp 2549-2551.

SLA 60-18093

Sci
Vol IV, No 9
Mar 62

187, 137

Secondary Recrystallization and Recrystallization
of Critically Strain Hardened Uranium of High
Purity, by Nelly Ambrosio DeLibanati, et al,
4 pp.

FRENCH, per, Comptes Rendus, Vol CCXLIX, 1959,
pp 2769-2771. 9217183

AEC-Tr-6109

Sci
Jan 64

Placing of Evidence and Interpretation
of the Inversion Phenomena with the In-
terface displacement Direction in
U-Zr diffusion, by Y. Adda, 3pp.
Brench, per, C.R. Acad. Sci. 249, 1959
pp. 2775-2777.
*NES TT 70-57599

Sci/chem
Jul 70

Measurement of the Mechanical and Photoelastic
Characteristics of a Plastic Material Subjected
to Sinusoidal Stress at Low Frequencies (Less
Than 50 KC), by A. Lagarde

FRENCH, per, Academie des Sciences. Paris. Comptes
Rendus, Vol 250, 1960, pp 969-971
NTC 71-15551-20K

feb 72

61-10220

Kovacs, André.

A PHENOMENOLOGICAL THEORY OF THE ISO-THERMAL EVOLUTION OF QUENCHED GLASS
[1960] 6p. 4 refs.

Order from SLA mi\$1.80, ph\$1.80 61-10220

Trans. of Acad[em]ie des Sci[ences], Paris, Comptes Rendus (France) 1960 [v. 250, no. 1] p. 109-111.

A phenomenological theory of the isothermal contraction of quenched glasses is presented. This contraction is a non-Newtonian volume flow. In clarifying the terms of this flow we are led to an expression which contains only two parameters which also govern the viscoelastic behavior of super-cooled liquids.
(Author)

1. Glass--Viscosity
2. Glass--Elasticity
1. Kovacs, A.

148,497

Office of Technical Services

(Materials--Ceramics, TT, v. 5, no. 7)

Effect of Pressure on the Interstitial Compound
Formed by Diffusion Between Uranium and Copper, by
Y. Adda, M. Beyeler, A. Kirilenko, 4 pp.

FRANCE, par, Comptes Rendus, Vol CCL, 1960,
pp 115-117. 9039540

AEC HW Tr-38

Sci - Min/Metals
Jpl 62

204,695

Berton, A.

GALVANIC CELLS, WITH ELECTRODES OF THE
SAME NATURE, AS DETECTORS OF VAPORS,
LIQUIDS AND SOLIDS IN THE AIR. [1961] 2p.

Order from ATS \$3.00

ATS-42N50F

Trans. of [Academie des Sciences, Paris] Comptes
Rendus [us] (France) 1960, v. 230, p. 126-127.

(Chemistry--Analytical, TT, v. 5, no. 11)

61-22153

1. Electrolytic cells--
Sensitivity
2. Electrodes--Chemical
properties
3. Vapors--Detection
4. Liquids--Detection
5. Solids--Detection

- I. Berton, A.
- II. ATS-42N50F
- III. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Self-Diffusion of K and Ce in NaClO_4 , by J. Cabane.
FRENCH, per, Compt Rend., Vol 250, 1960, pp 128-130.
*NTIS/NBS TT 71-55213
Available NBS Only

July 71

On the Perfection of the Photoelastic
Measurement Methods, by J. Sapaly.
FRENCH, per, Academie des Sciences. Paris.
Comptes Rendus, Vol 250, 1960, pp 287-289.
NTC-71-15545-20F

Feb 72

Study of U-Sr Diffusion by Experiments
on Heterogeneous Systems, by Y. Adda,
3pp.

FRENCH, per, C.R. Acad. Sci. 250, 1960
pp. 536-538.

*NBS TT 70-57602

Sci/chem
Jul 70

Application of Radioactive Tracers to the Study
of Impurity Segregation at Metal-Oxide Inter-
faces of Steel, by C. De Beaulieu.

FRENCH, per, Comptes Rendus Acad Sci, Vol 250,
1960, pp 539-541.

*Nat Bur Stand TT-70-57707

Sci-Phys

Jul 70

Artificial Sodium Clouds. Multiple Diffusion
of Resonance Light, by J. E. Blamont.

FRENCH, per, Compt Rend, Vol CCL, 1960,
pp 565-569.

NASA TP F-8154

Sci

7 Mar 62

185,935

US GOV'T ONLY

The Probable Existence of Superconducting
Elements at Extremely Low Transition, by
Bruce Bailly Goodman, 3 pp.

FRENCH, per, Comptes Rendus, Vol CCL,
No 4, 1960, pp 683-685.

SLA 60-18038

Sci
Vol IV, No 9
Mar 62

187, 217

Ferromagnetic Resonance and Phase Theory,
by Andre Coumes, 3 pp.

FRENCH, per, Comptes Rendus, Vol CCL,
No 5, 1960, pp 819-821.

BLA 60-18087

Sci
Vol IV, No 9
Mar 62

187, 223

The Tellurides of Cerium CeTe_2 and Ce_3Te_4 , by
L. Domange.

FRENCH, per, Academie des Sciences, Paris, Comptes
Rendus, Vol 250, 1960, pp 857-858.

nNTC-71-11235-07B

Nov 71

The Arseniates of Cobalt. Characterization of
Various Cobalt Arseniates Through Fractional Pyrolysis
of the Monocobaltous Biarseniate, by J. Masson.

FRENCH, per, Academie des Sciences. Paris. Comptes
Rendus, Vol 250, 1960, pp 859-861.

NTC-71-11236-07B

Nov 71

Mollet, L. and Heros, M.
TOXICCLOGY - PRESENCE IN THE URINES OF
THE 3,4-BENZOPYRENE CONTAINED IN THE HU-
MAN ORGANISM. 1960. 4p.
Order from K-H \$5.00 K-H 10033

Trans. of Acad[emie des] Sciences, Paris]. Comptes
Rendus (France) 1960 [v. 250] 1 Feb, p. 943-945
(publ. by Gauthier-Villars et Cie., Paris).

DESCRIPTORS *Toxicity. *Benzopyrenes, Secretion.
*Urine, Man.

(Monistrol Science - Toxicology, 11, v. 6, no. 11)

62-17531

- I. Mollet, L.
- II. Heros, M.
- III. K-H-10033
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

(Monistrol Science - Toxicology, 11, v. 6, no. 11)

Measurement of the Mechanical and Photoelastic Characteristics of a Plastic Material Subjected to Sinusoidal Stress at Low Frequencies (Less than 50 MC), by A. Lagarde.

FRENCH, per, Academie des Sciences. Paris.

Comptes Rendus, Vol 250, 1960, pp 969-971.

NTC-71-15551-20K

Feb 72

PAPERS ON ULTRASTRUCTURAL CYTOCHEMISTRY, BY E. LEDUC,
GUY DE THE, W. BERNHARD, 4 PP.

FRENCH, PER, COMPTES RUNDAS ACAD SCI, VOL CCL,
1960, PP 979-981.

NIH 87-8-62

SCI - CHEMISTRY

OCT 62

213,054

New Method for the Precise Measurement of the
Width of the Rays Obtained From X-Ray Diffrac-
tion by Crystallites, by J. Grompesta, et al.

FRENCH, per, Comptes Rendus, Vol CCL,
1960, pp 1022-1024.

Broken Hill Prop Co Ltd
(CRL/T.343)

Sci - Phys

191, 712

Apr 62

Spectrophotometry of Murexide Complexes With
Earth-Alkali Metal Salts and With Magnesium
Salts, by H. Feschotte-Ostertag.

FRENCH, per, Comptes Rendus de l'Academie des
Sciences, Vol CCL, No 6, 1960, pp 1061-1063.

CSIRO Tr 5030

Sci - Chem

Jun 61

156,517

Concerning a Molecular Mechanism of Mutagenesis
by Nitrous Acid, by R. Lavallo, 5 pp.

FRENCH, per, Comptus Rendus, a Vol CCL, 1960,
pp 1134-1136.

AEC Tr 4044

Sci -
Jun 60

118,905

On the Resonant Excitation of Metastable Nuclear
Levels of Very Long Lifetimes, by C. Tzara
FRENCH, per, Academie des Sciences, Paris, Comptes
Rendus, Vol 250, 1960, pp 1466-1467
NTC 71-16378-18H

mar 72

Heavy Particle Detector With n-p Silicon Junction,
by Georges Amsel, Pierre Baruch, Olgierd
Smulkowski, 4 pp.

FRENCH, per, Comptes Rendus, Vol CCL, 1960,
pp 1468-1470.

AEC SCL-T-339

Sci - Engr
21 Feb 61

140,918

ULTRAMICROSCOPIC STRUCTURE OF THE VIRUS OF ROUS
SARCOMA GROWN IN VITRO, BY F. HAGUENAU, H. FEBVRE,
5 PP.

FRENCH, PRE, COMPTES RUNDAS ACAD SCI, VOL CCL, 1960,
PP 1477-1479.

NIH 6-26-62

SCI - MED

208,764

AUG 6 2

R. Challande

New Method for the Study of Solid Particles in
the Stratosphere.

FRENCH, per, Comptes Rendus, Academie des Sciences
(Paris), Vol 250, No. 8, 1960, pp 1520-1521.

NASA TT F 14,467

Oct. 72

Action of X-rays on the Growth of Cultures of a
One-Celled Chlorophyll Organism: *Scenedesmus*
Grassus Ueb. (Chlorophyll Algae), by Roland Gillet,
Paul Czenda, 2 pp.

CCL

FRENCH, Per, Comptes Rendus, Vol. XXL, 1960,
pp 1552-1554.

AEC Tr-4601.

Sci
Aug 61

661
163, ~~274~~

Evolution and Seat of Exchanges of Water Between
Maternal Fluid Cavity and Products of Concep-
tion in Relations to Stage of Gestation in
Human Pregnancy, by M. Grynfogel, A.
Flentz.

FRENCH, per, Comptes Rendus, Vol. CCL, No 8,
1960, pp 1563-1565.

CASINO 5173

Sci - Med
Jul 62

207,627

Damany, H.

ELECTRIC CONDUCTIVITY OF THIN GOLD FILMS
DEPOSITED ON A SUBSTRATE OF SILICON. [1960]
Sp. 7 refs.

Order from SLA ml\$1.80, ph\$1.80 61-10273

Trans. of Academie des Sciences [Paris] Comptes
Rendus (France) 1960, v. 250, no. 9, p. 1615-1617.

The electric conductivity of these films is particularly
sensitive to the effect of certain gases, and appreciable
differences from Ohm's law are observed at the regular
temperature. (Author)

(Physics--Solid State, TT, v. 5, no. 4)

61-10273

1. Gold films--Conductivity
 2. Thin films--Conductivity
 3. Electrical conductance--
Measurement
1. Damany, H.

143,188

Office of Technical Services

Application of the Method of Kryukov and Zhukhovitskii
to the Measurement of the Self-Diffusion Coefficient
of SR in SrTiO_3 , by P. Turlier.

FRENCH, per, Compt Rend., Vol 250, 1960, pp 1649-1650.

*NTIS/NBS TT 71-55214

Available NBS Only

July 71

Popovici, Stefan and Pop, Mariana.
CHEMICAL KINETICS: THE DEFORMATION OF
MOLECULES IN THE COURSE OF CHEMICAL RE-
ACTIONS. [1961] 4p. 13 refs.
Order from SLA \$1.10

61-16185

Trans. of [Academie des Sciences, Paris]. *Comptes
Rendus (France)* 1960, v. 250, no. 9, p. 1651-1652
(pub. by Gauthier-Villars et Cie., Paris).

DESCRIPTORS: *Chemical reactions, *Reaction kinet-
ics, Molecular structure, Molecules, Deformation,
Energy.

(Chemistry--Physical, TT, v. 6, no. 3)

61-16185

I. Popovici, S.
II. Pop, M.

III. Title: Deformation...

17525

Office of Technical Services

Operator: A Group of Genes Whose Expression is
Coordinated by an Operator, by E. Jacob, E.
Fornio, O. Sanchez, J. Monod, 6 pp.

REVIEW, par, Comptes Rendus Acad Sci, Vol 267,
No 9, 1960, pp 1727-1729.

NYN Tr 9-3-60

Sci - Med

Nov 60

133,321

Influence of an Anabolizer, Methandrostenolone
on the Hypophyso-Genital System of Rats,
by H. Tuchmann-Duplessis, L. Mercier-Parot,
4 pp.

FRENCH, par, Comptes Rendus, Vol CCL,
No 11, 1960, pp 2070-2072.

SLA 60-18086

Sci
Feb 62
Vol 4, No 9

184, 671

Presence of Adrenergic Beta Receptors in the
Nictitating Membrane of Cats, by H. Schmitt,
2 pp.

FINCH, per, Comptes Rendus Acad Sci, Vol CCL,
Mar 21, 1960, pp 2267-2268.

NIH 7-37-60

Sci - Med

Sep 60

A New Method for Observing the Rotokinetic Effect
of Surface Tension, by M. Borneas.

FRENCH, per, Academie des Sciences, Paris, Comptes
Rendus, Vol 250, 1960, pp 2330-2331. 72073, 21, 22, 23
NTC-71-11419-07D

DDC RSIC-21 9685170

Nov 71

The Effect of Aluminum Nitride on the Forgeability
of Steel, by P. Bastian, P. Portevin.

FRENCH, per, Comptes Rendus des Seances de
l'Academie des Sciences, 21 Nov 1950, pp 2347-2349.

BISI 2392

Sci - Min/Metals

168,571

Sep 61

List 110

61-10192

Gouskov, L.
ON THE OXIDATION OF GERMANIUM SURFACES
OF DIFFERENT ORIENTATION FOR TEMPERA-
TURES VARYING FROM 500° TO 800°C AND OXY-
GEN PRESSURES OF 10^{-3} AND 10^{-4} Hg. [1960] 5p.
3 refs.

Order from SI.A mi\$1.80, ph\$1.80 61-10192

Trans. of Academie des Sciences [Paris]. Comptes
Rendus (France) 1960, v. 250, no. 14, p. 2538-2540.

Results are given of the oxidation of germanium sur-
faces oriented according to the (100), (110) and (111)
planes at 500°C and 10^{-4} mm Hg and germanium sur-
faces oriented according to the (111) plane at 600°,
700°, 800°C and 10^{-3} mm Hg.

141, 151

(Chemistry-Physical, TT, v. 5, no. 2)

1. Germanium--Oxidation
1. Gouskov, L.

Office of Technical Services

Use of the Method of Harmonic Excitation for the
Measurement of Mechanical and Photoelectric
Properties of a Plastic Material, by A. Lagarde
FRENCH, per, Academie des Sciences. Paris. Comptes
Rendus, Vol 250, 1960, pp 2796-2798
NTC 71-15550-20K

feb 72

Cordier, Henri and Maimi, René.
THERMOKINETICS: EXPERIMENTAL STUDY OF THE
INFLUENCE OF PRESSURE ON THERMAL CONTACT
RESISTANCE. [1962] 5p. 3 refs.
Order from SLA \$1.10

63-10777

Trans. of Acad[emie] des Sciences [Paris]. Comptes.
Rendus (France) 1960, v. 250, 25 Apr, p. 2853-2855
(pub. by Gauthier-Villars et Cie., Paris).

DESCRIPTORS: *Thermodynamics, Pressure, Resist-
ance, Thermal conductivity, Thermocouples

(Physics--Thermodynamics, TT, v. 9, no. 11)

63-10777

- I. Cordier, H.
- II. Maimi, R.
- III. Title: Experimental..

Office of Technical Services

Influence of Temperature on the Two Series
of Bands of the Spectrum of Green
Fluorescence From Pure Cadmium Sulfide at
Low Temperature, by Marguerite Bance-Grillot,
Eugene F. Gross, 5 pp.

FRENCH, per, Comptes Rendus, Academie des
Sciences, Vol CCL, No 17, Apr 25, 1960,
pp 2868-2870. 9676322

FTD-TT-62-131

Sci - Phys, Chem
3 May 62

194, 108

Bothorel, Pierre.
APPARATUS FOR MEASURING THE HALL EFFECT
OF PULVERULENT SOLIDS (Appareil de Mesure de
l'Effect Hall pour Solides Pulverulents). [1960] 3p.
5 refs.

Order from SLA mi\$1.80, ph\$1.80

61-10191

Trans. of Academie Des Sciences [Paris]. Comptes
Rendus (France) 1960, v. 250, no. 17 [p. 2892-2894].

Original apparatus is described that allows the direct
study of powder, without preliminary transformation.
It is maintained under constant pressure in a paral-
lelepipedal cavity during the measurement of the Hall
coefficient, the resistivity, the magnetoresistance,
and the volume mass. The influence of the pressure
on these quantities is studied to $1,000 \text{ kg. cm}^{-2}$.
(Author)

(Physics--Electronics, TT, v. 5, no. 7)

61-10191

1. Metal powders--Electro-
magnetic properties
2. Title: Hall effect
1. Bothorel, P.

148,486

Office of Technical Services

PAPERS ON ULTRASTRUCTURAL CYTOCHEMISTRY. EFFECT ON
CHROMATIN, BY E. LEDUC, W. BERNHARD, 4 PP.

FRENCH, PER, COMPTES RUNDAS ACAD SIC, VOL CCL,
XII 1960, PP 2948-2950.

NIH 6-38-62

SCI - CHEM

AUG 62

208,776

On the Reduction of Europium Sesquioxide and the
Preparation of Europium Monoxide, by Jean-Claude
Achard, 8 pp.

FRENCH, per, Comptes Rendus, Vol ~~255~~ CCL, No 18,
2 May 1960, p 3025. 9089633

AEC Tr-5167

Sci - Chem
Aug 62

208,465

Diffusion of Some Metals in Dilute So-
lution with U, By M. Mosse, 3 pp.
FRENCH, per, C.R. Acad. Sci. 250, 1960
pp. 3171-3173.
*NBS TT 70-57600

Sci/mat
Jul 70

Spectrum Analysis in Radio-Astronomy,
by E. Blom.

RESEARCH, Comptes Rendus,
Vol. 261, No. 16, pp. 3279-3280.

(14)

OSW 5005

Sci - Electron
Dec 7 61

175 6 71

EXPERIMENTS IN ULTRASTRUCTURAL CYTOCHEMISTRY EFFECT
ON THE ERGASTOPLASM, BY W. BERNHARD, E. LEDUC,
4 PP.

FRENCH, PER, COMPTES RUNDAS ACAD SCI, VOL CCL, 196X0,
PP 3411-3413.

NIH 6-32-62

SCI - CHEM

203,770

AU G 62

Minoux, J. and Marchal, J.
STUDY OF THE STEREOSPECIFIC POLYMERIZA-
TION OF ISOPRENE INITIATED BY n-BUTYLITH-
IUM IN BENZENE. [1960] 6p. 9 refs.
Order from SLA mi\$1.80, pb\$1.80 61-10332

Trans. of Academie des Sciences, [Paris]. Comptes
Rendus (France) 1960, v. 250, no. 22, p. 3650-3652.

A kinetic study of the polymerization of isoprene initi-
ated by n-butyllithium in benzene shows that the active
centers in this type of polymerization are the unasso-
ciated organo-lithium compounds present in the reac-
tive medium. (Author)

(Chemistry--Organic, TT, v. 5, no. 7)

61-10332

1. Isoprene--Polymerization
2. Lithium compounds
(Organic)--Chemical
reactions

- I. Minoux, J.
- II. Marchal, J.

148,490

Office of Technical Services

On the Problem of Substitution of a Thin Plate for
the Keel of a Ship for the Purpose of Calculating
Its Resistance to Friction, by Robert-Jean Balquet,
3 pp. UNCLASSIFIED

FRENCH, per, Comptes Rendus, Vol CCL, No 23, 1960,
pp 3773-3775. 9676277

Navy 2732/NRL 827

Sci - Engineering
Feb 61

138,984

Relations Between Ozone and the Earth's
Magnetism, by A. Vassy, I. Rasool.

FRENCH, per, Comptes Rendus, Vol CCL,
1960, p 4865.

3

Univ of Melbourne
Languages Section
Faculty of Science
T.312

Sci - Geop
Oct 61

EXPERIMENTS IN ULTRASTRUCTURAL CYTOCHEMISTRY
DIGESTION BY PEPSIN AND TRYPSIN, BY E. LEDUC,
W. BYCZKOWSKA-SMYK, 5 PP.

FRENCH, PER, COMPTES RUNDAS ACAD SCI, VOL CCL, 1960,
PP 4052-4054.

NIH 6-33-62

SCI - CHEM

AUG 62

208,771

Delaplace, J. and Bigot, R.
STUDY OF $\gamma \rightarrow \beta$ AND $\beta \rightarrow \alpha$ TRANSFORMATIONS
IN THE BINARY ALLOYS URANIUM-CHROMIUM,
URANIUM-IRON AND URANIUM-MOLYBDENUM
WITH SMALL CHROMIUM, IRON OR MOLYBDENUM
CONTENT DURING THEIR RAPID COOLING. 1 Jan 41
fp. 2 refs.

Order from SLA mi\$1.80, ph\$1.80

61-10457

Trans. of [Academie des Sciences, Paris]. (Comptes
Rendus [France]) 1940, v. 250, no. 25, p. 4157-4159.

151811

(Metallurgy--Nonferrous Metals, TT, v. 5, no. 9)

61-10457

1. Uranium alloys--Phase
studies
I. Delaplace, J.
II. Bigot, R.

Office of Technical Services

Behavior of Sulphur Under the Influence of a Shock
Wave, by J. Berger, S. Joigneau, G. Bottet.

FRENCH, per, Comptes Rendus Academie des Sciences,
Vol CCL, 27 Jun 1960, pp 4331-4333. 9207435

~~AEC~~ - Sci - 70 - 471

Sci - Chem

NSIC tr No 1760

17 Jan 63

Contribution to the Study of the Hafnium-Hydrogen
System, by L. Hagström, P. Azou, et al, 3 pp/
FRIEDMAN, per, Comptes Rendus, Vol CCL, Apr. Jan
1960, pp 4152-4154. 9278338
REF-ABNL-Tr-166

Sci-Divers
Jun 63

281,08

On the True Nature of the Luminous Phenomena
Observed in Shock Tubes with Magnetic Blowing,
by E. Cloupeau
FRENCH, per, Academie des Sciences. Paris.
Comptes Rendus, Vol 251, 1960, pp 918-920
HTC 71-15316-20I

mar 72

Influence of aluminium nitride on the forgeability of
steel, by P. Bastien, P. Portevin.

FRENCH, Acad Sci Paris, comptes rendus, No 251, 1960,

pp 9-2347

CRL/T 1959

Sci -

Seq 67

240,290

On the Possibility of Observing the Cooperative
Phenomena in Nuclear Magnetism, by Anatole Abragam,
5 pp.

FRERCH, per, Comptes Rendus Academie des Sciences,
Vol CCLII, No 2, 11 Jul 1960, pp 225-227.

Navy Tr 3279/NRL 917

Sci - Phys

Dec 62

217,521

Berge, C. ON THE EQUIVALENCE OF THE GENERALIZED TRANSPORTATION PROBLEM AND THE PROBLEM OF NETWORKS. [1961] 5p. 2 refs. Order from SLA \$1.10 Trans. of Academie des Sciences [Paris], Comptes Rendus (France) 1960, v. 251, no. 3, p. 324-326 (pub. by Gauthier-Villars et Cie., Paris). DESCRIPTORS: *Transportation, *Electrical networks, Mathematical analysis. (Mathematics, TT, v. 6, no. 3)	61-14757 I. Berge, C. 248205 Office of Technical Services
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Hazoni, Yehonathan.

ELECTRONICS: FAST ANALOG-DIGITAL CONVERTER
[1963] 5p

Order from SLA \$1.10

TT-64-14130

Trans. of [Academie des Sciences, Paris. Comptes
Rendus (France) 1960, v. 251, no. 3, p. 343-345]
(pub. by Gauthier-Villars et Cie., Paris).

(Mathematics--Computing Devices, TT, v. 11, no. 12)

TT-64-14130

I. Hazoni, Y.

II. Title: Fast ...

Office of Technical Services

Quenching of Vacancies in Ag, by Y. Quere
3 pp.

FRENCH, per, C.R. Acad. Sci. 251, 1960
pp. 367-369.

*NBS TT 70-57603

Sci/chem
Jul 70

Ghouila-Houri, A.
A SUFFICIENT CONDITION FOR THE EXISTENCE
OF A HAMILTONIAN CIRCUIT. [1961] 6p. 2 refs.
Order from SLA \$1.10 61-14758

Trans. of Academie des Sciences [Paris].
Comptes rendus (France) 1960, v. 251, no. 4,
p. 495-497.

DESCRIPTORS: Quantum mechanics, Theory.

This paper demonstrates a conjecture advanced by
C. Berge which generalizes both a König theorem and
a Dirac theorem. (Author)

(Physics--Theoretical, TT, v. 6, no. 7)

61-14758

1. Ghouila-Houri, A.

Office of Technical Services

Phase Contrast in Electron Microscopy, by
Jean Faget, Jean Ferre, Charles Fert.

FRENCH, per, Comptes Rendus, Academie des Sciences,
Vol CCLI, No 4, 1960, pp 526-528.

*FTD-TT-62-1505

Sci - Phys, Electron

22 Oct 62

Navez, M. and Sella, C.
STUDY OF THE STRUCTURE OF GLASS FIBERS
AND THIN GLASS FILMS. 1961, 5p. 2 refs.
Order from MUL 54.50 MUL-T61-6

Transl of Academie des Sciences [Paris]. Comptes
Rendus (France) 1960, v. 251, no. 4, p. 529-531.

DESCRIPTORS: *Glass, Glass textiles, Thin films,
Microstructure.

(Materials--Ceramics, TT, v. 9, no. 2)

63-12378

- I. Navez, M.
- II. Sella, C.
- III. MUL-T61-6
- IV. Mulholland Engineering
Translations,
Cincinnati, Ohio

Office of Technical Services

Baglin, A.

ON THE PROPAGATION OF WAVES IN A PARTLY
IONIZED MEDIUM. [1961] 5p. 1 ref.
Order from SLA \$1.10

61-14749

Trans. of Academie des Sciences [Paris], Comptes
Rendus (France) 1960, v. 251, no. 3, p. 684-685.

DESCRIPTORS: Sound, *Propagation, *Magnetohydro-
dynamics, Mathematical analysis, Velocity, Damping,
Particles.

The propagation equation of planewaves is described in
the case where the magnetic field is longitudinal. Then
the transverse and longitudinal modes are disconnected.
They are studied in succession for low frequencies.
Their propagation velocity and their damping coefficient
are determined. (Author)

(Physics--Wave Propagation, TT, v. 6, no. 1)

61-14749

I. Baglin, A.

161781

Office of Technical Services

Dulac, Jean and Durif, André.
STUDY OF TWO SPINEL ANTIMONATES (Étude de
Deux Antimonates Spinelles). [1963] [7p] (foreign
text included) 3 refs
Order from SLA \$1.10

TT-64-14057

Trans. of [Academie des Sciences, Paris]. Compt[es]
Rend[us] (France) 1960, v. 251, p. 747-749 (pub.
by Gauthier-Villars et Cie., Paris).

(Physics--Solid State, TT, v. 11, no. 12)

TT-64-14057

I. Dulac, J.
II. Durif, A.

Office of Technical Services

Lejus, Anne-Marie and Collongues, Robert.
THE FORMATION OF AN INTERMEDIATE META-
STABLE PHASE DURING THE DECOMPOSITION OF
A NON-STOICHIOMETRIC SPINEL. [1961] [3]p.

4 refs.

Order from SLA \$1.10

62-10757

Trans. of Acad[emle des] Sc[iences, Paris]. Compt[es]
Rend[us] (France) 1960, v. 251, p. 959-961 (pub. by
Gauthier-Villars et Cie., Paris).

DESCRIPTORS: *Spinels, Decomposition, Phase
studies, Temperature, *Aluminum compounds,
*Oxides

(Chemistry--Physical, TT, v. 7, no. 10)

62-10757

I. Lejus, A. -M.
II. Collongues, R.

Office of Technical Services

61-14754

Janko, Andre and Michel, Pierre.
STUDY OF NICKEL ELECTROLYTICALLY CHARGED
WITH HYDROGEN BY DIFFRACTION AND ELEC-
TRON MICROSCOPY. [1961] [5]p. 6 refs.
Order from SLA \$1.10

61-14754

Trans. of Academie des Sciences, Paris. (Comptes
Rendus (France) 1960, v. 251, p. 1001-1003 (pub. by
Gauthier-Villars et Cie., Paris).

DESCRIPTORS: *Nickel, *Hydrogen, *Folts, Crystal
structure, Electron diffraction analysis, Electron
microscopy.

The existence of a cubic face-centered nickel-hydrogen
phase of parameter 3.70 Å, which had been discovered
by X-rays, was confirmed by electron diffraction. A
second phase of the same type but of parameter 3.83 Å
was found under certain conditions. The patterns pro-
duced by these phases in thin foils exhibit a high stabil-
ity. It can be assumed that they correspond to modifi-
cations in the thin nickel layers. (Author)

I. Janko, A.
II. Michel, P

16200

Office of Technical Services

(Metallurgy--Structural,
TT, v. 6, no. 3)

Histautoradiographic Study of Tritiated
Thymidine Incorporation in Cells Treated With
Trihydroxy-N-Methylindole, by M. Chevremont,
E. Baeckeland, 3 pp.

FRENCH, per, Comptes Rendus Acad Sci,
Vol CCLI, 1960, pp 1097-1099.

NIH 1-18-62

Sci - Med

186,384

Feb 62

Coprecipitation of Palladium and Tellurium Comparison
of Thecoprecipitates With Alloys Obtained by Fusion;
by Marcelle Segui-Cros.

FRENCH, per, Compt. Rend, Vol CCLI, 1960, pp 1127-1128

CIA/FDD IX-1067

NOT RELEASABLE TO FOREIGN NATIONALS

Sci

Oct 61

USIB INTERNAL USE ONLY

OTS 12 10-17
170, 171

Balkanski, M., Nazarewicz, W., and Silva, E. da.
OPTICAL ABSORPTION DUE TO THE INTRODUCTION OF CARBON IN THE LATTICE OF SILICON.
[1961] [5]p. 3 refs.

Order from SLA \$1.10

61-18280

Trans. of Academie des Sciences [Paris]. Comptes
Rendus (France) 1960, v. 251, no. 13, p. 1277-1279
(pub. by Gauthier-Villars et Cie., Paris).

DESCRIPTORS: *Silicon, Lattices, *Carbon, Impu-
rities, *Infrared spectroscopy, Absorption, Crystals.

A spectroscopic study of silicon doped with carbon
showed an absorption peak located at $12.20 \pm 0.05 \mu$.
Infra-red spectroscopy of silicon doped with carbon,
therefore, affords a reliable method of qualitative de-
tection of the presence of carbon; it can also develop
into a quantitative method for determining the carbon
content in silicon.

61-18280

I. Balkanski, M.
II. Nazarewicz, W.
III. Silva, E. da

(Physics--Solid State, TT,
v. 6, no. 11)

Office of Technical Services

Lacassagne, A., Buu-Hoi, N. P., and others.
SMALL REDUCTION IN THE CARCINOGENIC
POWER ON HYDROGENATION OF HYDROCARBON
MOLECULES, LARGE REDUCTION IN THE CASE
OF THE BENZACRIDINES. [1961] 5p. 12 refs.
Order from SIA \$1.10 61-20019

Trans. of [Academie des Sciences, Paris]. Comptes
Rendus (France) 1960, v. 251, no. 14, p. 1322-1324
(pub. by Gauthier-Villars et Cie., Paris).

DESCRIPTORS: *Biochemistry, *Hydrocarbons,
*Hydrogenation, Polycyclic compounds, *Benzene
derivatives, *Cancer research, Nitrogen compounds,
Chemical analysis, *Acridines.

(Biological Sciences--Biochemistry, TT, v. 7, no. 4)

61-20019

I. Lacassagne, A.
II. Buu-Hoi, N. P.

Office of Technical Services

Diffusion and Solubility of Hydrogen in Fe and High
Strength Steels, by J. Plusquellec.

FRENCH, per, Comptes Rendus Acad Sci, Vol 251,
1959, pp 1816-1819,

*Nat Bur Stand TT 70-57750

Sci-Materials

Jul 70